

PATENT ABSTRACTS OF JAPAN

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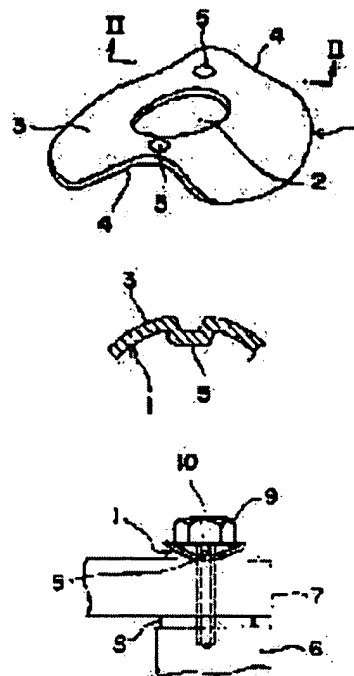
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(54) WAVE WASHER

(57)Abstract:

PROBLEM TO BE SOLVED: To keep a separated state even if the washers are overlapped to each other by forming a downward-directed projection in a mountain-shaped location of a curved annular surface of a wave washer to be fixed to a clutch part of an engine i.e., a 2-cycle engine in particular.

SOLUTION: The central part of an annular shape of a wave washer 1 is formed with a fastening bolt through-pass hole 2 and a curved surface 4 raised at an annular surface 3 in a mountain-like shape. Each of the curved mountain-like shaped locations is formed with a projection 5 directed downwardly. In this way, a main body 7 of a clutch is fastened against a hub 6 of the main body of an engine by a bolt 9 through a flat washer 8 and a central through-pass hole 2 of the wave washer 1. Even if many wave washers are overlapped to each other, their adjoining washers are prevented from being adhered to each other and their automatic assembling operation is carried out smoothly by the projections 5 arranged at the mountain-like shaped curved surfaces 4 of the wave washers 1.



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